

WHAT IS CLAIMED IS:

1. A chlorine free disposable diaper having a multi-layered diaper assembly comprising:

an exterior layer comprising a non-woven material having a planar, soft, cloth-like surface layer;

a core layer made of non-chlorine bleached material for holding waste materials within the disposable diaper;

a containment layer coupled to a first side and a second side of the core layer for containing the waste material in the core layer and away from skin of a wearer;

a distribution layer coupled to the containment layer for evenly distributing waste material to the core layer; and

an interior layer coupled to the distribution layer comprising a non-woven liquid permeable material.

2. A chlorine free disposable diaper having a multi-layered diaper assembly in accordance with Claim 1 further comprising a leakage protection layer coupled to the exterior layer for preventing waste material from leaking out of the disposable diaper.

3. A chlorine free disposable diaper having a multi-layered diaper assembly in accordance with Claim 1 wherein the core layer comprises a non-chlorine bleached wood pulp material.

4. A chlorine free disposable diaper having a multi-layered diaper assembly in accordance with Claim 3 wherein the core layer further comprises a superabsorbent mixture.

5. A chlorine free disposable diaper having a multi-layered diaper assembly in accordance with Claim 1 wherein the exterior layer comprises a spunbond hydrophobic non-woven polypropylene material.

6. A chlorine free disposable diaper having a multi-layered diaper assembly in accordance with Claim 1 wherein the containment layer comprises a spunbond hydrophilic non-woven material.

7. A chlorine free disposable diaper having a multi-layered diaper assembly in accordance with Claim 1 wherein the distribution layer comprises a non bleached non-woven material.

8. A chlorine free disposable diaper having a multi-layered diaper assembly in accordance with Claim 1 wherein the interior layer comprises a spunbond hydrophobic non-woven polypropylene material.

9. A chlorine free disposable diaper having a multi-layered diaper assembly comprising:

- an exterior layer comprising a non-woven material having a planar, soft, cloth-like surface layer;

- a leakage protection layer coupled to the exterior layer for preventing waste material from leaking out of the disposable diaper;

- a core layer made of non-chlorine bleached wood pulp for holding the waste materials within the disposable diaper;

- a containment layer coupled to a first side and a second side of the core layer for containing the waste material in the core layer and away from skin of a wearer;

- a distribution layer coupled to the containment layer for evenly distributing waste material to the core layer; and

- an interior layer coupled to the distribution layer comprising a non-woven liquid permeable material.

10. A chlorine free disposable diaper having a multi-layered diaper assembly in accordance with Claim 9 wherein the core layer further comprises a superabsorbent mixture.

11. A chlorine free disposable diaper having a multi-layered diaper assembly in accordance with Claim 9 wherein the exterior layer comprises a spunbond hydrophobic non-woven polypropylene material.

12. A chlorine free disposable diaper having a multi-layered diaper assembly in accordance with Claim 9 wherein the containment layer comprises a spunbond hydrophilic non-woven material.

13. A chlorine free disposable diaper having a multi-layered diaper assembly in accordance with Claim 9 wherein the distribution layer comprises a non bleached non-woven material.

14. A chlorine free disposable diaper having a multi-layered diaper assembly in accordance with Claim 9 wherein the interior layer comprises a spunbond hydrophobic non-woven polypropylene material.

15. A method of providing a chlorine free disposable diaper having a multi-layered diaper assembly comprising:

forming an exterior layer comprising a non-woven material having a planar, soft, cloth-like surface layer;

coupling a leakage protection layer to the exterior layer for preventing waste material from leaking out of the disposable diaper;

forming a core layer made of non-chlorine bleached wood pulp for holding the waste materials within the disposable diaper;

coupling a containment layer to a first side and a second side of the core layer for containing the waste material in the core layer and away from skin of a wearer;

coupling a distribution layer to the containment layer for evenly distributing waste material to the core layer; and

coupling an interior layer to the distribution layer comprising a non-woven liquid permeable material.

16. The method of Claim 15 wherein the core layer further comprises a superabsorbent mixture.

17. The method of Claim 15 wherein the exterior layer comprises a spunbond hydrophobic non-woven polypropylene material.

18. The method of Claim 15 wherein the containment layer comprises a spunbond hydrophilic non-woven material.

19. The method of Claim 15 wherein the distribution layer comprises a non bleached non-woven material.

20. The method of Claim 15 wherein the interior layer comprises a spunbond hydrophobic non-woven polypropylene material.

6